METHOD AND STRUCTURE FOR PROVIDING OPTIMAL DESIGN OF TOLERANCED PARTS IN MANUFACTURING

ABSTRACT

5   A method and structure for a computerized method for providing an

optimization solution, includes, for a process, wherein is defined a linear

functional form $y = f(X,c)$, where X comprises a set of independent variables $X = \{x_1,...x_n\}$, c includes a set of functional parameters $c = \{c_1,...c_n\}$, and y comprises a

dependent variable, where the independent variables set X is partitioned into two

10   subsets, X_1 and X_2, receiving data for the process and minimizing y with respect to

X_1. Dependent variable y is maximized with respect to X_2, subject to a set of

constraints. The maximizing y includes a global optimum for the process.

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